

عنوان مقاله:

Unit Commitment Considering Vehicle to Grid using Cuckoo Optimization Algorithm

محل انتشار:

هفتمین کنفرانس ملی مهندسی برق و الکترونیک ایران (سال: 1394)

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خلاصه مقاله:

Vehicle to Grid (V2G) processes has been drawn wonderful in the recent years. Electric Vehicles (EV) with the ability of connecting to the grid are a kind of storage systems with a set of special characteristics. Unit commitment (UC) includes efficiently scheduling on/off states of all available generators in power network. As number of gridable vehicles in V2G is much higher than minor units of existing systems, UC with V2G is more complicated than basic traditional UC. This paper presents Unit Commitment with Vehicle to Grid (UC-V2G) Using Cuckoo Optimization Algorithm (COA). As a case study, results on 10-bus system are presented to facilitate the efficiency of suggested method.

کلمات کلیدی:

(Vehicle to Grid (V2G); Unit commitment (UC); Plug in Hybrid Vehicle; Cuckoo Optimization Algorithm (COA

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